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[Smart polymers and what they could do in biotechnology and medicine](#)

IY Galaev, B Mattiasson - Trends in biotechnology, 1999 - Elsevier

... transition) above a certain threshold of an external stimulus such as pH, temperature, ionic strength or ... to control drug release, because the diffusion of the drug out of the beads depends on the ... When a smart polymer is integrated into a microcapsule wall [37] or a liposomal lipid ...

Cited by 254 - Related articles - All 5 versions

[... high-performance liquid chromatography using monodisperse polymer beads ...](#)

V Smigol, F Svec, JMJ Frechet - Analytical chemistry, 1994 - pubs.acs.org

... Chromatography Using Monodisperse Polymer ... A plot of log k' against ionic strength of the mobile phase for these beads shows the absence of hydrophobic interactions and documents the clean ion-exchange mechanism of protein separation. ...

Cited by 18 - Related articles - BL Direct - All 3 versions

[... and characterization of chitosan microparticles intended for controlled drug ...](#)

JA Ko, HJ Park, SJ Hwang, JB Park, JS Lee - International journal of ... 2002 - Elsevier

... For example, chitosan beads, micro or nanoparticles were produced by ionic cross-linking with tripolyphosphate (TPP) (Bodmeier; Shiraishi and Calvo). Shu and Shu reported the chitosan bead, which was prepared with TPP, increased the drug loading efficiency as well as ...

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[Bioadhesive polymers as platforms for oral controlled drug delivery II: Synthesis ...](#)

HS Ch'Ng, H Park, P Kelly, JR ... - Journal of ... 2006 - interscience.wiley.com

... of poly(acrylic acid-divinyl glycol) was studied at constant temperature, ionic strength, and ... shown to have substantially longer GI transit times than the control, Amberlite 200 resin beads. ... acid polymer showed a longer GI transit time than the methacrylic acid polymer, and this ...

Cited by 210 - Related articles - All 5 versions

[... chloride crosslinked carboxymethyl guar gum beads for gastrointestinal drug ...](#)

RT Thimma, S Tammishetti - Journal of Applied Polymer ... 2001 - interscience.wiley.com

... guar gum; microbeads; protein drugs; gastrointestinal delivery; microencapsulation; drug delivery systems; hydrophilic polymers; metal-polymer complexes. ... The drug loading efficiency of these Ba ++ /CMGG beads, as a function of concentration of both metal ion as well as ...

Cited by 24 - Related articles - BL Direct - All 4 versions

[... utilizing pH-/temperature-responsive polymer stationary phases to separate ionic ...](#)

J Kobayashi, A Kikuchi, K Sakai, T Okano - Anal. Chem, 2001 - pubs.acs.org

... Polymer hydrogel-modified silica beads were packed into a stainless steel column (150 mm × 4.6 mm id) from a slurry of beads in water/methanol (1:1) using a ... Mobile phase comprised phosphate/citrate buffer adjusted to constant ionic strength (I = 0.1) by addition of KCl. ...

Cited by 37 - Related articles - BL Direct - All 4 versions

[Alginate/chitosan particulate systems for sodium diclofenac release](#)

ML Gonzalez-Rodriguez, MA Holgado, C ... - International journal of ... 2002 - Elsevier

... The anti-inflammatory drug (as sodium salt) is dissolved in an aqueous solution containing the soluble polymer and, in the case of carboxylate-containing polymers (alginate, carboxymethyl cellulose), the formation of ... The ionic gelation method gave beads with a high ...

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Functional **polymer** microspheres

H Kawaguchi - Progress in **polymer** science, 2000 - Elsevier

... It was concluded that Coulomb effect is dominant in the medium with low **ionic** strength but hydrophobic interaction becomes more important in the medium with higher **ionic** strength. ...

2.1.2. Use of thermosensitive polymers. **Polymer gel beads**, which are crosslinked particles ...

Cited by 297 - Related articles - BL Direct - All 4 versions

... to prepare 100 [mu] m-sized microcapsules with prolonged **drug**-release by the ...

H Ichikawa, K Fujioka, MC Adeyeye, Y ... - International journal of ..., 2001 - Elsevier

... **ion**-exchange resin (IER)-**drug** complexes were used as core materials to explore ..., a 100 µm-sized, highly **drug**-incorporated microcapsule with a prolonged **drug** release by ... and subsequently microencapsulated with two types of aqueous colloidal **polymer** dispersion, Aquacoat ...

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[CITATION] **Ionic** polymers as **drug** carriers

EH Schacht - Controlled **Drug** Delivery: Basic concepts, 1983 - CRC

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catalysts ionically bound to polymer

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Poly (N-isopropylacrylamide) soluble polymer supports in catalysis and synthesisDE Bergbreiter, BL Case, YS Liu, JW Caraway - *Macromolecules*, 1998 - [pubs.acs.org](#)... turning off and then on as the **polymer-bound catalyst** dissolves and precipitates. This behavior is illustrated in Figure 2 below for hydrogenation of allyl alcohol by 22. figure Figure 2 On/off behavior exhibited for the Rh(I) hydrogenation **catalyst (22) bound ionically** to a PNIPAM ...

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Combinatorial chemistry using polymer-supported reagentsSW Kaldor, MG Siegel - *Current Opinion in Chemical Biology*, 1997 - Elsevier... 1). Stoichiometric reagents and **catalysts** participate in the formation of product, while scavengers are ... solution at the end of the reaction are those that remain **bound** to the ... Our definition of polymer-supported reagents includes **ionically** or covalently linked activating reagents (eg ...

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Palladium/phosphinated polystyrene as a catalyst in the Heck arylation. A ...CM Andersson, K Karabelas, A Hallberg, C ... - *The Journal of Organic ...*, 1985 - [pubs.acs.org](#)... For **ionically bound palladium(II)**, see: (1) Holy, NL; Shelton, SR Tetrahedron 1981, 37 ... **polymer-bound phosphine ligands** tend to be less efficient than phosphines in solution in stabilizing ... metal particle and metal complex **catalysis** is not restricted to supported **catalysts** but ...

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... photooxidations with molecular oxygen using metal phthalocyanines as catalysts ...D Wohrle, O Suvorova, R Gerdas, O ... - *JOURNAL OF ...*, 2004 - [worldscinet.com](#)... 2 or covalently and coordinatively **bound** on SiO₂ and organic **polymers** or **ionically bound** on an ... Heterogeneous **catalysts** can exhibit higher activities than low molecular weight phthalocyanines. ... A Si(IV) phthalocyanine derivative on a **polymer** ion exchanger is most active ...

Cited by 31 - Related articles - BL Direct

... protected by surface-bound monolayers of thiolated poly (ethylene glycol) polymer ...WP Wuelfling, SM Gross, DT Miles, RW Murray - *J. Am. Chem. Soc.*, 1998 - [pubs.acs.org](#)... Nanometer Gold Clusters Protected by Surface-Bound Monolayers of Thiolated Poly(ethylene glycol) ... fabrication and potential application in areas as diverse as **catalysis**, nonlinear optics ... 5 in new **polymer** electrolyte media, a semisolid having an **ionically** conductive nanophase ...

Cited by 88 - Related articles - BL Direct - All 4 versions

Supported transition metal complexes as catalystsFR Hartley, PN Vezey - *Adv. Organomet. Chem.*, 1977 - [books.google.com](#)... been reported in the last decade or so in which enzymes **bound** to organic **polymers** or glass supports have been studied (80), the idea of binding homogeneous **catalysts** to solid ... polystyrene resins in which the metal complex (eg. [Pt (NH₃)₄ 2⁺]) was **ionically bound** to the ...

Cited by 109 - Related articles - All 2 versions

[PDF] Antithrombogenic polymersM Jozefowicz, J Jozefowicz - *Pure Appl Chem*, 1984 - [old.iupac.org](#)... Therefore, a suitable anticoagulant biomaterial should be a **catalyst** of inhibition reactions of the coagulation ... their heparin content by exposure to the blood stream, if the covalently **bound** heparin remains ... remain potent a longer time than it is the case for **ionically bound** heparin. ...

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Heterogeneous anionic transition metal **catalysts**

RS Drago, A El A'mma - US Patent 4,417,077, 1983 - Google Patents

... of an anionic species containing the transition metal which is **ionically bound** to , -> an ... EXAMPLE 1 In accordance with this invention, heterogeneous anionic metal **catalysts** are prepared by ... This indi- 30 cates the presence of the identical anion which is **ionic- ally bound** to the ...

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... epoxidation of dienes using **polymer-supported manganese porphyrin catalysts**

E Brule, YR de Miguel, KKM Hii - Tetrahedron, 2004 - Elsevier

... The catalytic loading of the **polymer** beads, verified by %Mn analysis (ICP-AES), was between 0.26 and 0.53 mmol/g. ... 1,2-epoxide 8, to typically less than 1.7:1. 10 The most selective supported manganese **catalyst** reported to date is a Mn(III) porphyrin **ionically bound** to poly(4 ...

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... -based olefin metathesis **catalyst** to polymeric phases: preparation of a **catalyst** on ...

A Michrowska, K Mennecke, U Kunz, A Kirschning, ... - J. Am. Chem. ..., 2006 - pubs.acs.org

... These results show the potential applicability of glass-**polymer** composite Raschig rings in a ... mode (Scheme 4). This protocol allows simultaneous immobilization of both the **catalyst** and its ... solution during olefin metathesis can be re-trapped by excess of **ionically bound** ligand 9 ...

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